The interaction of ...

\$\frac{194}{62}\rightarrow{000}\rightarrow{011}\rightarrow{031}\rightarrow{062}\$

circular waveguide. The results may be used in the development of a transition from a rectangular wave-guide to a septate one, and for solving other problems connected with discontinuities in septate waveguides. The author quotes results of calculations, experimental figures, graphs and transition schemes. 4 references. / Abstracter's note: Complete translation. 7

Card 2/2

A SOLUCION DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE LA

8/194/62/000/010/067/084 A055/A126

AUTHOR:

Tragov, A.G.

TITLE:

TEXT:

Investigation of the parameters of the equivalent circuit of thick

diaphragms for Equ waves

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962,

81, abstract 10-7-1621 (In collection: Uskoriteli, no. 3, M., Gos-

atomizdat, 1962, 161 - 173)

The relations for the parameters of the equivalent circuit of a single diaphragm (diameter 2a, thickness t) in a round waveguide are deduced by the

Schwinger (Shvinger) variational method. The relations

r/a, $(r/a)^3$, $r/\sqrt{a^2-r^2}$

are taken as comparison functions at the aperture (r < a). Calculation for a concrete case (2b = 8.6 cm, t = 0.4 cm, λ = 10.66 cm).for the three variants of the comparison function gave a satisfactory coincidence with experimental results. Graphs are reproduced for the determination of the diaphragm equivalent circuit

Card 1/2

S/194/62/000/010/067/064 A055/A126

Investigation of the parameters of the

parameters at $\tau/b=2.5$ and various a/b and t/λ . A resonance method for measuring the diaphragm equivalent circuit parameters is described; this method implies essentially the determination of the resonant frequencies of two natural oscillations of a resonator consisting of a section (shorted on both sides) of a diaphragmed waveguide. There are 4 references.

[Abstracter's note: Complete translation]

Card 2/2

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9/058/62/000/011/042/061 A160/A101

4.1.10

AUTHOR:

Tragov, A. G.

TITLE:

The interaction of diaphragms in septate waveguides

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 11, 1962, 38, abstract 11-3-75s (In collection: "Uskoriteli", no. 3, Moscow, Gosatomizdat, 1962,

174 - 184)

TEXT: An investigation was carried out of the interaction of diaphragms in septate waveguides. The conditions were explained under which the rigorous theory of four-pole filters would be applicable to a septate waveguide. This investigation was conducted on the basis of a dispersion relation bearing a general character. By making comparisons with experimental data, it is shown that a determination of the characteristic admittance in relation to the field of the fundamental wave makes it possible to describe the reflections arising during the junction of a round and a septate waveguide - even in the presence of a strong interaction of the diaphragms. The accuracy of such a consideration suffices to match a septate waveguide with a round one by means of calculation.

1/1

Card 1/2

The interaction of diaphragms in septate waveguides

S/058/62/000/011/042/03: A160/A101

The results obtained may be used for developing a transition from a rectangular waveguide to a septate one, and for solving other problems connected with irregularities in septate waveguides. The results of calculations and experimental data, graphs and transition schemes are presented. There are 4 references.

V. L.

[Abstracter's note: Complete translation]

Card 2/2

3/058/62/000/009/043/069 A006/A101

AUTHOR:

Tragov, A. G.

TITLE:

The interaction of diaphragms in diaphragmed waveguides

PERIODICAL: Referativnyy zhurnal, Fizika, no. 9, 1962, 21, abstract 9Zh129 (In collection: "Uskoriteli", no. 3, Moscow, Gosatomizdat, 1962,

174 - 184)

The author clears up conditions permitting the application of the TEXT: strict theory of four-terminal filters to a diaphragmed waveguide. The investigation was carried out on the basis of the dispersion correlation which is of a general nature and is rigorous, independent of the fact whether or not there is an interaction of diaphragms. A comparison with experimental data shows that the determination of conductance characteristics through the basic wave field makes it possible to describe reflections arising during the coupling of a circular and a diaphragmed waveguide, even if there is a strong interaction of the diaphragms. The accuracy of such description is sufficient to achieve by calculations the matching of a diaphragmed and a circular waveguide. The results ob-

Card 1/2

The interaction of diaphragms in...

S/058/62/000/009/043/069 A006/A101

tained can be used to design a transitional section from a rectangular to a diaphragmed waveguide and to solve other problems connected with heterogeneities in diaphragmed waveguides.

G. Chekov

[Abstracter's note: Complete translation]

Card 2/2

S/058/62/000/009/042/069 A006/A101

AUTHOR:

Tragov, A. G.

TITLE:

Investigating high-frequency properties of diaphragmed waveguides

based on the concept of fields as normal waves

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 9, 1962, 21, abstract 9Zh128

(In collection: "Uskoriteli", no. 3, Moscow, Gosatomizdat, 1962,

148 - 160)

TEXT: Dispersion of a circular diaphragmed waveguide is calculated. It is considered that the distribution E(r) of a radial electric field at the inlet of the diaphragm aperture does not depend upon geometrical dimensions and frequency. At a given E(r) the dependence of the phase shift upon frequency is represented as an explicit function. The assumption that E(r) is the same as in a round aperture cut through in an infinite screen, yields high precision of the dispersion calculation. Parameters of a four-terminal network, equivalent to a waveguide section, were calculated. Currents and voltage are determined either through the full field or through the field of wave E₀₁ of the circular

Card 1/2

Investigating high-frequency properties of...

S/058/62/000/009/042/069 A006/A101

waveguide in the central plane of the section. It is shown that at a great distance between the diaphragms, the waveguide characteristics are expressed in terms of the parameters of a single diaphragm.

I. Beluga

[Abstracter's note: Complete translation]

Card 2/2

TRAGOV, A.G.

Application of network theory to septete wave guides. Ezv. vys. uchab. 2av.; radiotekh. 3 nc.6:644-651 N-D '60. (MIRA 14:8)

1. Rekomendovana kafedroy elektrofizicheskikh ustanovak Moskowskogo imahenerno-fizicheskogo instituta. (Wave guides)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

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\$/759/62/000/003/015/021

AUTHOR: Tragov, A. G.

TITLE: Investigation of high-frequency properties of iris waveguides, based

on representation of the fields in the form of normal waves

SOURCE: Moscow. Inzhenermo-fizicheskiy institut. Uskoriteli. no.3.1962. 146-160

TEXT: The high-frequency properties of iris waveguides are investigated using circuit-theory principles, by expanding the field in series of normal modes. Each cell of the iris waveguide is broken up into two cylindrical regions, one between the irises (diaphragms) and the other inside the diaphragm itself, which is considered of finite thickness. All the derivations are based on the assumption that the distribution of the transverse electric field is the same for the input and output openings of the thick diaphragms, and does not depend on the geometrical dimensions of the iris waveguide or the frequency. A dispersion equation is derived, and it is shown that a definite choice of the electric field distribution function ensures a sufficiently high accuracy in the calculation of the phase velocity of the wave. Two expressions are derived for the characteristic admittance of the iris waveguide, making it possible to describe the properties of such a waveguide on a circuit-theoretical basis. Although Card 1/2

Investigation of high-frequency properties... S/759/62/000/003/015/021

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these expressions are in general approximate, they do go over into the exact ones when the distance between diaphragms is increased. The circuit-theory approach consists of expressing the unit cell of the waveguide by an equivalent two-port and obtaining the connection between the characteristic parameters of the two-port with the general characteristic of a the equivalent filter. There are two figures.

Card 2/2

S/759/62/000/003/016/021

AUTHOR: Tragov, A. G.

Investigation of the parameters of the equivalent circuit of a thick TITLE iris for the E₀₁ mode

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli. no.3.1962.161-173

Relations are derived for the parameters of the equivalent circuit of an iris, using the Schwinger variational method, and the dependence of the circuit parameters on the choice of the comparison functions is investigated. The junction of two round waveguides of round cross sections at frequencies not far from cutoff is investigated as a particular case of a thick iris. Plots are presented for the determination of the parameters of the iris equivalent circuit, and a measurement procedure is described. The equivalent circuit chosen is that of a symmetrical T-filter with reactive elements, with the electromagnetic fields in the vicinity of the iris represented as sums of normal modes. Good agreement is obtained between the calculations and the experimentally measured values, which are obtained using a resonance measurement method, based on measuring the natural frequency of a cavity containing the iris. There are 2 figures.

Card 1/1

S/759/62/000/003/017/021

AUTHOR: Tragov, A. G.

TITIE: Interaction of irises in iris waveguides

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli. no.3.1962. 174-184

TEXT: The conditions under which the rigorous theory of two-port filters can be applied to an iris waveguide are investigated on the basis of a general dispersion equation which is rigorously valid whether the irises interact with one another or not. It is shown further by comparison of the experimental data that by determining the characteristic admittance in terms of the field of the principal mode makes it possible to describe the reflections that arise when a round waveguide is joined with an iris guide, even in the presence of strong interaction between the irises. The accuracy of such a description is sufficient to allow an iris waveguide to be matched with a round one by computation. The results obtained can be used to develop a transition piece between a rectangular waveguide and an iris guide and to solve other problems connected with inhomogeneous and iris waveguides. There are 6 figures.

Card 1/1

S/759/62/000/004/015/016 D207/D308

AUTHOR: Tragov, A. G.

TITLE: Calculation of the dispersion characteristics of dia-

phragm-type waveguides

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli,

no. 4, 1962, 127-146

TEXT: Theoretical formulas are derived for the phase velocity β_{ph} and the dependence of this velocity on the wavelength (the dispersion of $d\beta_{ph}/d\lambda$) in terms of the waveguide dimensions. The calculated values are compared with the experimental results for $d\beta_{ph}/d\lambda$ and are found to agree within 10%. Typical results are given for two waveguides with (1) 2b = 88.61 mm, 1 = 9.97 mm, t = 60.3710, $a/\lambda = 0.16$ and (2) $a/\lambda = 1.82$ mm, $a/\lambda = 1.82$

Card 1/2

Calculation of the ...

S/759/62/000/004/015/016 D207/D308

t is the thickness of the diaphragms, and $\boldsymbol{\lambda}$ is the wavelength. There are 2 figures and 7 tables.

Card 2/2

S/759/62/000/004/016/016 D207/D308

AUTHOR: Tragov, A. G.

TITLE: Calculation of the accelerating field intensity in a

diaphragm-type waveguide

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli,

no. 4, 1962, 147-158

TEXT: Electromagnetic fields in a waveguide of a linear electron accelerator are assumed to be normal orthogonal waves. An expression is obtained for the axial electric-field component $\mathbf{E}_{\mathbf{z}}$, al-

lowing for the presence of higher harmonics. The value of $E_{\rm Z}$ is averaged over each section of the waveguide; the final result contains some rapidly converging series. The field intensity increases with increase of the diaphragm thickness t. That is why W. Walkinshaw's formula (Proc. Phys. Soc., Pt. 3, 61, 2, 246,1948; J. Appl. Phys., 20, 6, 634, 1949) for t=0 gives values of the final electron energy lower than those found experimentally in

Card 1/2

Calculation of the ...

S/759/62/000/004/016/016 D207/D308

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linear accelerators. A relationship between the power flux and the electric field is also derived. There are 1 figure and 2 tables.

Card 2/2

ZVEREV, B.V.; SOBERIN, N.P.; TELWOV, A.G.; SECHEMENT, I.S.

Determination of attenuation in office of septate wave refres.

(IRRA 18:2)

(IRRA 18:2)

TRACGVA, L.A.

Thermal properties description of petroleum (casinghead) gases.

(ERA 17:10)

Gas. delo. no.12:36-3: 163.

1. Vsecoyuznyy institut nauchnoy i takhnicheskoy informatsii.

TRAGROVA, M.; ZAHOR, Zd.

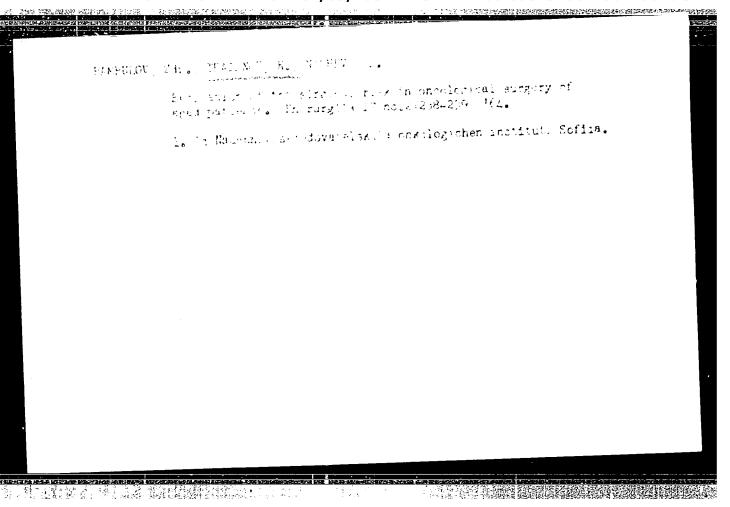
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Fatal pneumonia in vitamin A deviaiency. Sborn. lek. 63 no.4: 108-114 Apr 161.

1. Plicni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. J.Jedlicka II. patologickanatomicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. V.Jedlicka.

(BRONCHOPNEUMONIA etiol) (VITAMIN A DEFICIENCY compl)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"



RUMANIA/Acoustics - Atmospheric Acoustics. Hydroacoustics.

: Ref Zhur - Fizika, No 6, 1959, 13956 Abs Jour

Trahtenberg, N. Author

Inst

: Magnetic Sound Track for 16 mm Film. Title

: Noutati tehn. cinematogr., Minister invatamint. si cult., Orig Pub

(Bucuresti), 1958, 56-59

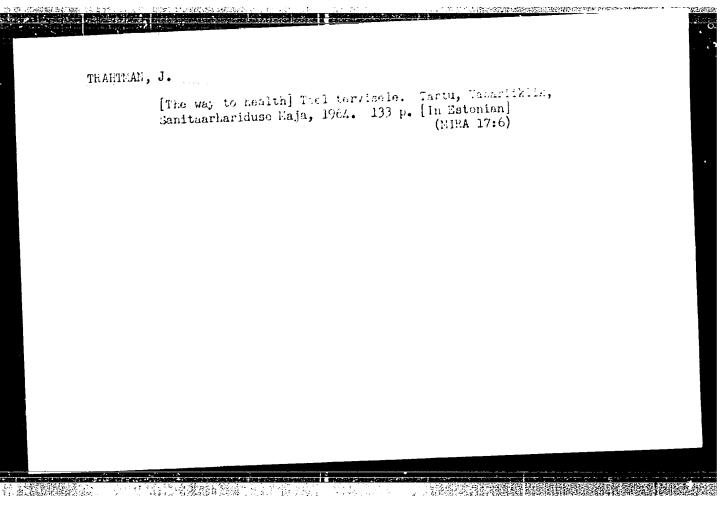
Abstract : No abstract.

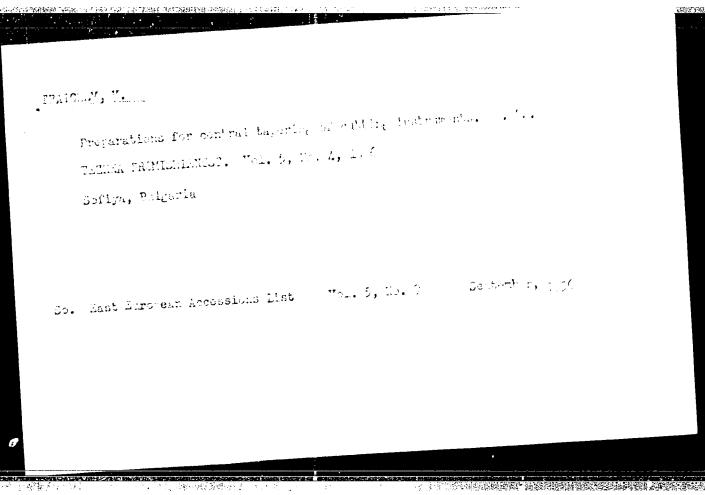
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- 114 -

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TRAIKCY, A.

"Light model mechanical soludle oress."

p. 17 (Ratsionalizatsiia) Vol. 7, nc. 4, Apr. 1957 Sofiia, Bulgaria

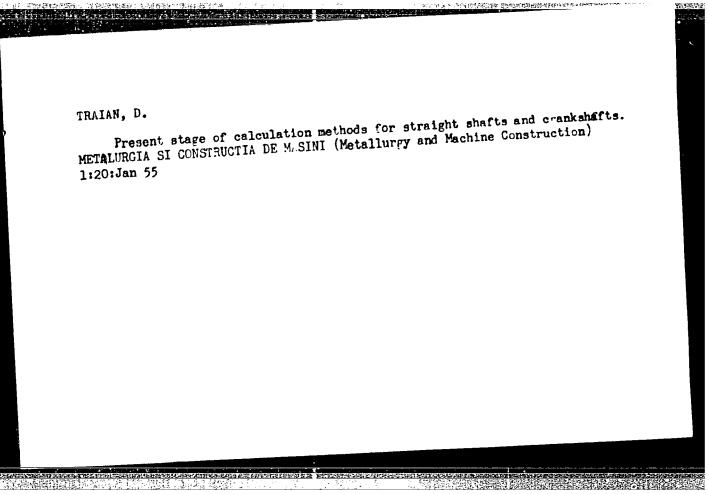
SO: Monthly Index of Eart European Accessions (LLAI) LC. Vol. 7, no. 4, April 1958

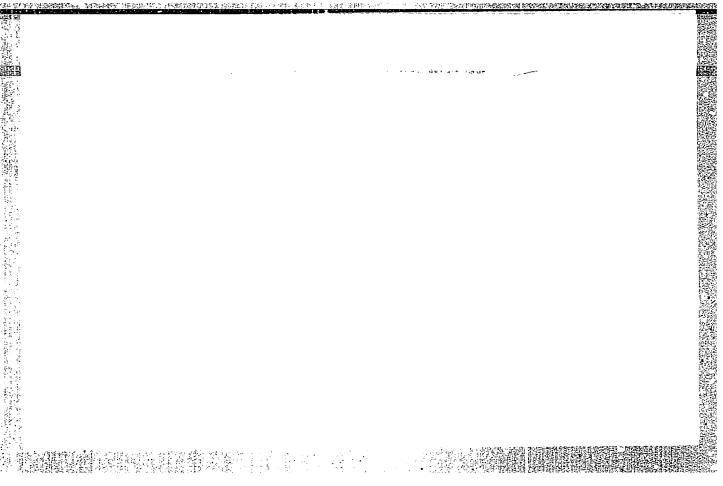
APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAIKOV, E. At Lom, Ikoliya unity between science and practice becomes stronger. p. 6.

Vol. 10, no. 6, June 1955 KOOPERATIVNO ZEMEDELIE Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 1 Jan. 1956





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TRAIAN, C.			
Spinning. Arigile	Patriei (The Wings of	the Fatherland), #5:10:	May 44

TRAIAN, G.

TRAIAN, G. Spiral flight. p. 19

Vol. 4, no. 9, Sept. 1955 ARIPIAL PATRIEL TECHNOLOGY Eucuresti

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), IC, Vol. 4, no. 9, Sept. 1955, Uncl.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAIAN, I.

Contribution to the knowledge of the importance of the edges of a forest for problems connected with the protection of forest stock. p. 339. REVISTA PADURILOR. Bucuresti. Vol. 70, no. 8, Aug. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 3, March 1956

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

	Paoriasis. Pel'd. i akush. no.10:28-30 0 '54. (MIRA 7:11)				
* 80	(PSORIASIS,)	BH, 10,10;20=30 0 134,	(MIRA 7:11)		

TRAIKOV, Grigor

Contractual fixed value in building, and its economic character. Stroitelstvo 11 no. 2:2-4 Mr-Ap *64.

1. Member of the Board of Editors, "Stroitelstvo".

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

Tigli.UV, Grigor

Guidelines for capital investments and tasks for construction industries in 1964. Stroitelstvo 11 no.1:1-3 Ja *64.

1. Chlen na Redaktsionnata kolegija, "Stroitelstvo".

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

处于1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,

TRAIKOV, T.T.

On sanatorium-health resort therapy of diabetes in Khisariia. Suvr. med. 14 no.7:12-19 163.

(DIABETES MELLITUS) (HEALTH RESORTS)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAIROV, T.P.; GENORIV, L. At., NARAWOOZOV, J. 71.

Synthesis by modeling the qualitative system of automatic control subjection the principle of invariance. Godishmik mash elect 13 no.2: 9-22 163. [publ. 164]

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

Possibility of the entropic parts of the cutting greet of a heavy rate. declarate much class to a .2:23-26 163 (paul. 166)

ARGIROVA, D., arkh.; TRAIKOVA, M., arkh.

The Khaskovo and Asenovgrad substations. Tekh delo 467:1 9 Mr 163.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TKHIZH, K

RUMANIA

GLIGORE, V., Professor; BACTU, Tr., MD; GHERMAN, Gr., MD; DIMITRESCU, I., MD; GHEORGHIEV, I., MD; FLOREA, E., MD; BLAJAM, St., MD; SAVA, E., MD; TRATLA, P., MD; LAPUSAM, M, Hospital attendant; PETEAMU, N., MD.

Medical Clinic II, Cluj (Clinica a II-a medicala Cluj) - (for first five);
 Polyclinic No. 1, Cluj (Policlinica Nr. 1, Cluj) - (for next five);
 Bontida Precinct (for Peteanu).

Bucharest, Viata Medicala, No 8, 15 Apr 63, pp 513-518.

"The Role of Certain Occupational Factors in the Aetiopathogeny of Ulcerous Diseases of Tractor Operators and Car Drivers."

(11)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAILINA, Ye. P.

Cand Chem Sci - (diss) "btudy in the field of inner-complex compounds formed by Mannich bases." Moscow, 1961. 11 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov, Chemistry Faculty, Chair of Inorganic Chemistry); 150 copies; price not given; (KL, 6-61 sup, 200)

TRAILINA, Ye.P.; SAVICH, I.A.; ZELENTSOV, V.V.

Synthesis of inner-complex compounds of some cations with Mannich

bases. Zhur. neorg. khim. 5 no.8:1902-1904 Ag '60. (MIRA 13:9)
(Mannich bases) (Complex compounds)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAILINA, Ye.P.; ZELENTSOV, V.V.; SAVICH, I.A.; SPITSYN, Vikt.I.

Solubility products of inner-complex compounds of comper, nickel, and uranium with 8-hydroxyquinoline. Zhur.neorg.klim. 6 no.9: 2048-2051 S '61. (MIRA 14:9)

(Organometallic compounds)

TRAILINA, Ye.P.: SAVICH, I.A.: SPITSYN, V.I.

Investigating inner-complex compounds of a number of atlone formed by Mannich bases. Trudy LVMI Tri38-142 *1.2 (MIRA Tris.)

TRAILINA, Ye.P.; ZELENTSOV, V.V.; SAVICH, I.A.; SPITSYN, Vikt.I., akademik

Spectrophotometric determination of the molecular weithts of some inner-complex compounds. Dokl.AN SSSR 134 no.4:848-849 0 (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Molecular weights) (Complex compounds)

TRAILINA, YG.P.; ZELENTSOV, V.V; SAVICH, I.A.; BYLYNA, E.A.; YEVDOKIMOV, V.B.

Magnetic susceptibility of the chelate compounds of divalent copper, nickel, and cobalt with Mannich bases. Zhur. fiz. khim. 35 no. 4:960-962 Ap '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Chalates—Magnetic properties)

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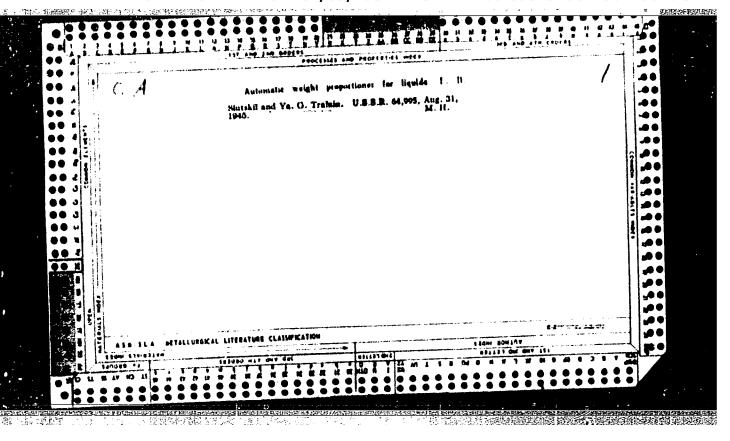
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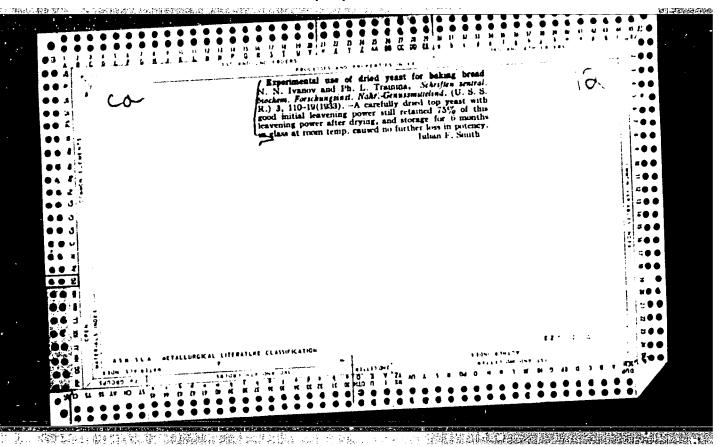
ZELENTSOV, V.V.; TRAILINA, Ye.P.; GLUSHKO, Yu.V.; SAVICH, I.A.; SPITSYN, VIKT.I.

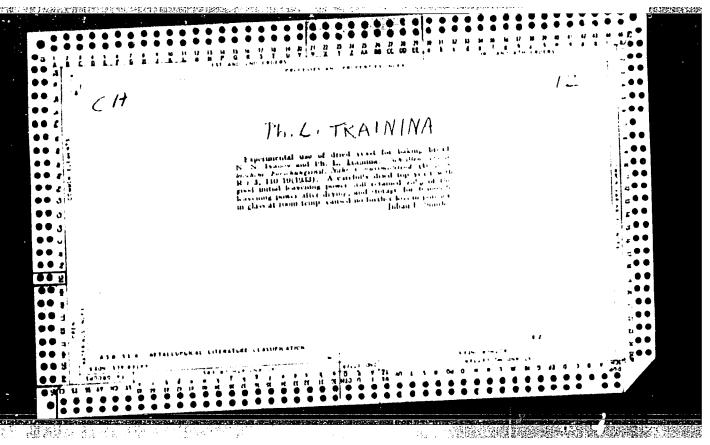
Inner-complex uranyl compounds with derivatives of 8-hydroxyquinoline of the type of Mannich bases. Zhur.neorg.khim. 6 no.5:1063-1065 My '61. (MIRA 14:4)

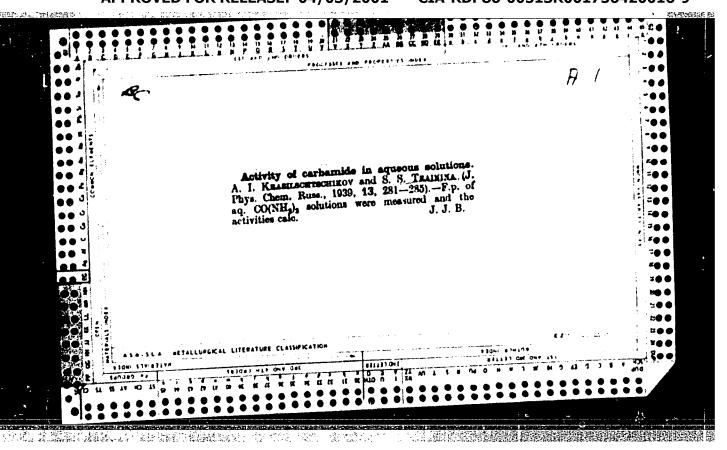
(Uranyl compounds)

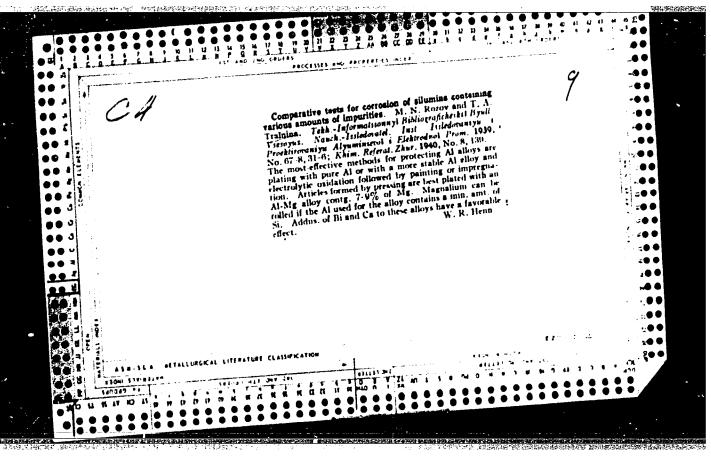
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TRAISSAC, F.I.

Fat metabolism in alcoholic cirrhosis. Notes on steatcsis. Cesk.

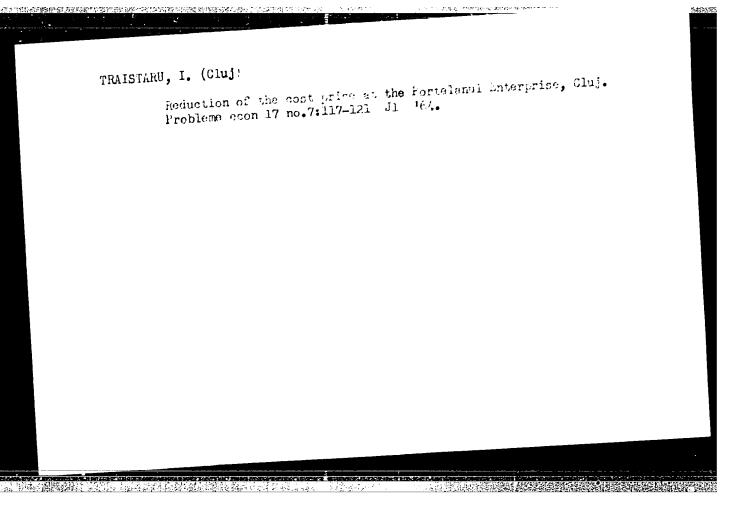
gastroent. vyz. 16 no.3/4:316-319 Ap '62.

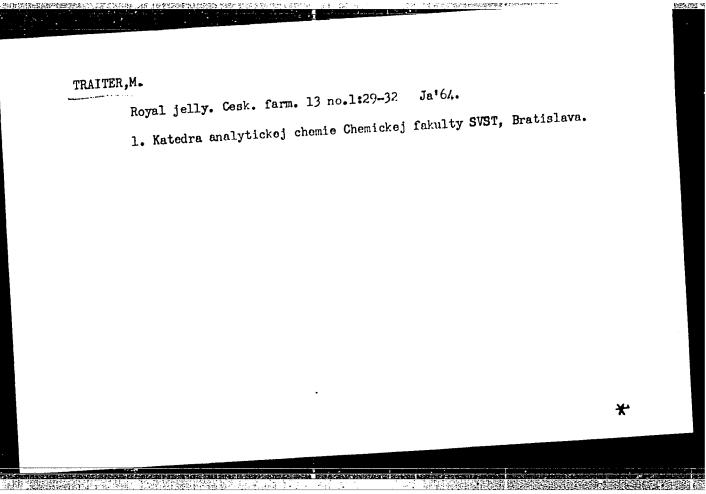
1. Hopital Saint-Andre, Bordeaux.

(ALCOHOLISM) (LIVER CIRRHOSIS) (SPRUE)

TRAISTARU, I. (Clui)

Correlations between investments, fixed acsets, social product,
and Rumunian income. Problems seen 18 no.2:3-17 F '65.





TRAITER, M.

CZECHOSLOVAKIA / Analytic Chemistry. Analysis of Organic Substance.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60705.

: Mojmir Traiter.

Paper Chromatography of Non-Volatile Organic Author Inst Title Acids.

Orig Pub: Chem. zvesti, 1957, 11, No 10, 583-589.

Abstract: The possibility of separating oxalic (I), tartaric (II) citric (III), malic (IV) and succinic (V) acids by paper chromatography using various mix-tures of ethanol, n-propanol (VI), pyridine (VII) and 25%-ual ammonia has been studied and the cor-

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CZECHOSLOVAKIA / Analytic Chemistry. Analysis of Organic E Substances.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60705.

Abstract: responding magnitudes of Rf are presented. Microdrops of acids are put on chromatographic paper "x. 85/285" made in Czechoslovakia and chromatographed 24 hours by the ascending method, and the chromatogram is developed by a solution of 0.5 g of Bromocresol Blue in 1 liter of 96%-ual alcohol (yellow spots). For the quantitative determination, 0.002 ml of the acid solution (5 to 80 %) is put on the paper and chromatographed with the mixture of VI + H2O + VII (75: 20: 5) (Rf is 0.35 for I, 0.23 for II, 0.47 for III, 0.59 for IV and 0.95 for V), the areas of separate spots are measured with a planimeter and the acid contents are computed using the calibrating curves of the dependence of the area size of a spot (y) on the

Card 2/3

94

CZECHOSLOVAKIA / Analytic Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60705.

Abstract: amount of acid (x) described by the equation $y = a \ln x + b$ (a and b are constants depending on the experimental conditions).

Card 3/3

TRAITER, M.

"Contribution to the paper chromatography of nonvolatile organic acids."

p. 583 (Chemicke Zvesti) Vol. 11, no. 10, Oct. 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAITSKIY, Y.L.

USCR/The Pathophysiology of Infectious Process.

U-3

Abs Jour

: Ref Zhur - Biol., No 5, 1953, 22399

Author

: Traitskiy, V.L.

Inst Title : The Effect of Ionizing Radiation on Infection and

Immunicy,

Orig Pub

: V ab.: Tr. Vses. konferentsii po med. radiol. Eksperim.

med. radiol. M., Medgiz, 1957, 11-17

Abstract

: No abstract.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAJAN, Ion (Bucuresti) Interesting contribution to the knowledge of vegetative hybridization. Natura Biologie 15 no.5:79-62 S-0'63.

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Andrew August 20 reported from the Tr. P	Practical work on the evaluation of the cereal harvest. Natura Biologie 16 no.3:48-49 Ky Je 164.

TRAJANOVSKI, D.

Organizing cooperation within defensive infantry regiment. p. 11.

VOJNI GLASNIK. (Jugoslavenska narodna armija) Beograd, Yugoslavia Vol. 9, no. 8, Aug. 1955

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. 9, Sept. 1959

Uncl.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420016-9"

TRAJANOVSKI, M., ing.

Reconnection on the 150 kV transmission line Bitola-Ptolomais. Elektro-provreda 14 no.7/8:385-386 Jl-Ag 161.

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TRAJDOS -WROBEL, TADEUSZ.

Wstep do analizy wektorowej.

Warszawa, Poland. Panstwowe Wydawn. Naukowe, 1959. 196 p.

Monthly List of East European Accessions, (ETAI) LC, Vol. 9, No 1, Jan. 1960 Uncl.

16(0)

PHASE I BOOK EXPLOITATION

POL/3424

Trajdos-Wróbel, Tadeusz

Wstęp do analizy wektorowej (Introduction to Vector Analysis)
Warsaw, Państwowe wyd-wo naukowe, 1959. 196 p. 5,200 copies
printed.

Ed.: Wanda Malesińska.

PURPOSE: This book is intended for mathematicians and scientists interested in the field of vector analysis. It will be of interest to students taking advanced courses in mathematics.

COVERAGE: The book is divided into three parts. The first part treats the algebra of vectors and discusses: basic properties of vectors, scalar multiplication of vectors, linear transformations of coordinate systems, product of two and more than two vectors, and applications and equations of vector algebra. The second part treats vector analysis and discusses: differentiation of a vector with respect to a parameter of the

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Introduction to Vector Analysis

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vector equation, vector fields, double and triple line integrals, vector field flow and Ostrogradskiy's statement concerning it, circulation and Stoke's statement, Green's theorems, and vector potential fields. The third part treats vectors expressed in terms of curvilinear coordinates and discusses various coordinate systems other than Cartesian. It also briefly discusses tensor analysis. No personalities are mentioned. No references are given.

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TRAJDOS- WROBKL, Tadeusz

A certain functional differential equation. Matematyka Warszawa Pol no.229-13 *64

1. Department of Geometry, Technical University, Warsaw.

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Seismographic recordings for May 1963. Bull seismique 27-31-163. 1. Seizmoloski zavod, Beograd-Tasmajdan.

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TMJIC, Dimitrije

Seismographic recordings for June 1963. Bull seismique
33-38 Je 163

1. Seizmoloshi zavod, Beograd-Lagnajdan.

TRAJIC, D. N.

Yugoslavia, (430)

Science

Microseismic yearbook for 1940. p. 7. Annuaire Microseismique et macroseismique, Vol. 20, 1950.

East European Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.

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TRAJIC, D. N.

Yugoslavia (430)

Science

Microseismic yearbook for 1945. p. 5, Annuaire Microseismique et Macroseismique, Vol. 25, 1950.

East European Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.

TRENEVSKI, N.; BREZJANIN, Dj.T.; TRAJKOV, I.

Should measles be considered an anergic disease? Tuberkuloza 15 no.1:98-109 Ja-Mr 163.

1. Infektivna klinika Medicinskog fakulteta u Skopju.
(TUBERCULOSIS IN CHILDHOOD) (MEASLES)
(STATISTICS)

5

TRAJKOV, S.

學術學的 经基本证券 医二氏病 医二苯基氏

Diffusion of zinc and cadmium into antimony. p. 670.

HUTNICKE LISTY, Brno, Czechoslovakia, Vol. 14, no. 8, Aug. 1959

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 10, Oct. 1959.
Uncl.

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2/034/61/000/003/005/011 E073/E335

AUTHOR: Trajkov, Stevc Engineer Candidate of Technical

Sciences

TITLE: Diffusion Accompanied by the Formation of an

Intermetallic Phase

PERIODICAL: Hutnické listy, 1961, A No. 3, pp. 198 - 205

TEXT: The aim of the work described in the paper is to investigate the conditions of formation of intermetallic phases during diffusion in the system Cu-Zn, the time and temperature dependence and the sequence of the formation of phases in the binary systems where two or more intermetallic phases form side-by-side. The diffusion coefficients and the activation energies of the individual phases were measured and a method of producing eccentrically-placed specimens was evolved. In the first part a theoretical analysis is made of the formation of intermetallic phases during diffusion the sequence of formation of the phases and the mutual influence of the phases during their growth. In the second part, experimental results are described. As the base metal

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electrolytic copper of 99,82% purity (which was in the form of 8 mm diameter, 10 mm long sylinders or 12 mm long, 6 mm high and 4 mm wide prisms) was used. The surface of the copper cylinders and prisms was degreased in benzene and methyl alcohol. Oxidation was removed by a 65% phosphoric acid; after 15 min etching, the specimens had the bright colour of metallic copper They were then stored in ether and removed immediately prior to the diffusion tests. The zinc used in the experiments was chemically pure and free of arsenic. The diffusion media were prepared as follows: a) zinc was melted in small crucibles; 10 mm dia, and 15 mm high, and the temperature of the zinc was maintained at 440 °C; colophony was used to protect the surface of the melt from oxidation. The copper specimens were submerged into the melt and the entire content was cooled very rapidly, in 2-3 sec, to prevent tooearly diffusion, b) the diffusion medium was zinc in powder form and zinc dust; to prevent sticking of the individual particles pulverised charcoal was added, which also acted as a reducing medium. This diffusion medium enabled diffusion Card 2/6

Diffusion Accompanied by

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experiments also at temperatures above the melting temperature of zinc; c) a layer of copper 40-50 \(\mu\$ thick was electrolytically deposited on 8 mm dia., 10 mm high zinc cylinders; d) at temperatures above the melting point of zinc, diffusion was directly by submerging the copper specimen into molten zinc, removing the specimens at certain time intervals, e) the diffusion medium rejection phase & "was produced by adding 15% copper to the molten zinc, heating at 600 °C under the charcoal protective layer. After cooling the formed phase could easily be crushed into powder, the diffusion was carried out on the one hand, by placing the copper cylinder into the pewder - on the other hand, by submerging it into the melt, f) the diffusion medium "rejection phase y" was produced by adding 35% copper to the molten zinc, heating at 750 C under the protective layer of charcoal, g) eccentric location of copper cylinders into the diffusion medium was achieved by deoxiding zinc in a glass, porcelain or quartz tube which was sealed from one side and then submerging the copper cylinder in such a way that it should be in close contact with the tube wall, which was then Card 3/6

Diffusion Accompanied by ...

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rapidly cooled The chemical compositions of the diffusion layers formed side by-side are plotted in Fig. 7 (zinc in %, copper in %, versus depth in mm). During diffusion in the temperature range 250-410 °C in the media a) and c), the phases β , γ and ϵ form side-by-side. They can be easily distinguished without etching. During diffusion in the media b) and e) only the γ and β phases form, during diffusion in the medium a) the phases β , γ and ε form side-by-side; the crystals of the ε -phase tear away from the surface layer and move into the melt. Diffusion in the medium f) produces only the β -phase. Diffusion in the medium g) produces all the three phases simultaneously. Identification was by chemical and microscopic analyses. A method was evolved of quantitative measurement of the mutual influence of the ϵ_{ν} γ and β phases in the system Zn-Cu It was established that during Zn-Cu diffusion, β is a primary phase formed, then γ forms and finally the phase ϵ . The effective values of the diffusion coefficient for the ϵ_{γ} γ and β phases were established as follows:

Card 4/6

2/034/61/000/003/005/011 E073/E335

 $D_{(T)\varepsilon} = 1.58.10^{-4} \text{ exp. (-15 700/RT) (295 - 496 °C)}$

 $D_{(T)Y} = 2.57.10^{-3} \text{ exp. } (-16 200/RT) (295 - 496 °C).$

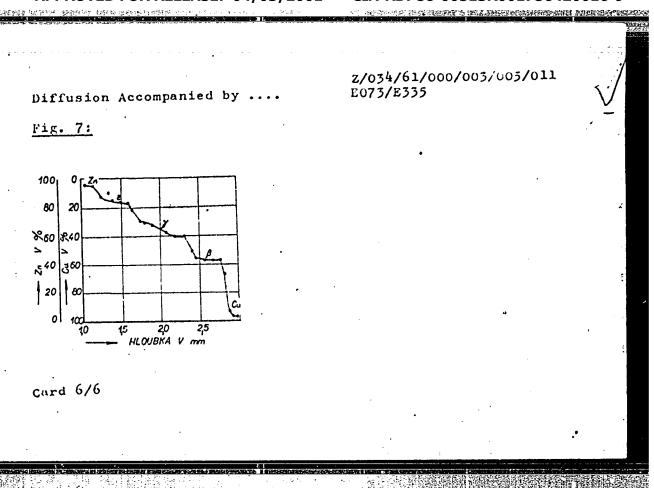
 $D_{(T)\beta} = 8.71.10^{-1} \text{ exp. } (-20.800/RT) (300 - 700 °C)$

There are 19 figures, 1 table and 6 references: 1 Czech and 5 non-Czech.

August 7, 1959 SUBMITTED:

Diffusion Accompanied by

Card 5/6



Z/037/62/000/001/002/007 E197/E535

Trajkov, St. AUTHOR:

Planar and cylindrical diffusion in multiphase TITLE:

Československý časopis pro fysiku, no.1, 1962, 12-22 PERIODICAL:

+ 3 plates In another paper the author solved the problem of planar diffusion in a two-component system with three phases α_{ν} β and γ and found an exact solution of the problem in a differential form. In this paper the planar and cylindrical diffusion are calculated for the type I system with four phases and the calculation of diffusion for n-phases is derived in a similar manner. The problem is formulated as follows: consider a binary system A-B with n-phases of type I. The definition of the system by means of weight fractions is expressed by:

the ears of weight fraction
$$x_{A_{\beta_1}} > x_{A_{\beta_2}} > x_{A_{\delta_2}} > x_{A_{\delta_2}} > x_{A_{\delta_3}} = 0,$$

$$x_{A_{\beta_1}} > x_{A_{\beta_2}} > x_{A_{\delta_2}} > x_{A_{\delta_3}} = 0,$$

Card 1/4

Planar and cylindrical ...

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At a given temperature and pressure the system will form n-solid phases α , β , ... of non-stoichiometric composition. boundaries are planar or cylindrical and the individual phases are homogeneous and compact. At the phase boundaries, thermodynamic equilibrium is established and the partial diffusion coefficients of the substances in the individual phases do not depend on the concentration of the components. One of the extreme phases may have any grouping, whilst the other phases must be solid, since otherwise convection is not excluded. The concentration gradient of the material and the mass balance are considered and expressed by a set of differential equations which are then solved by approximation, replacing integrals by linear expressions and assuming parabolic dependence of diffusion on time. Circular boundaries are reduced to linear boundaries. For both cases equations are given for a binary system of n-phases and n-1 boundaries. The planar and cylindrical diffusion were experimentally determined for an interface of Cd-Cu, using 99.99% purity, thoroughly degreased and cleaned, copper (0.2 to 0.5 mm thick sheet or 0.2 to 0.5 mm diameter cylinders) and Card 2/4

Planar and cylindrical ...

Z/037/62/000/001/002/007 E197/E535

99.95% purity cadmium. The cadmium was perfectly deoxidised with colophony and over the molten cadmium a layer of molten colophony was maintained. The copper specimens were submerged through the colophony into the molten cadmium and then the whole system was intensively cooled. Thus, perfect contact was achieved between the copper and the cadmium. The specimens thus produced were subjected to metallographic investigation to make sure that no diffusion layer formed during the process, Following that, the specimens were sealed into glass ampoules with an inert atmosphere and furnace annealed at a temperature of 200-310°C. The system Cd-Cu differs from the defined type I system by the fact that cadmium is partly soluble in copper, which is ignored in this paper. By means of fractions this system can be defined as follows:

 $0.997 = x_{Cu\alpha} > x_{Cu\gamma} > x_{Cu\varepsilon} > x_{Cu(in Cd)} = 0.$

 $^{\mathsf{X}}\mathsf{Cu}_{\mathsf{Y}_{1}}{^{\mathsf{X}}}\mathsf{Cu}_{\mathsf{Y}_{2}}{^{\mathsf{X}}}\mathsf{Cu}_{\varepsilon_{2}}{^{\mathsf{X}}}\mathsf{Cu}_{\varepsilon_{3}}$

The diffusion coefficient versus time went very nearly through the origin. Two diffusion layers were found both by microscopic Card 3/4

Planar and cylindrical ...

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inspection and chemical analysis: phase γ on the boundary with copper, Cu_5Cd_8 , and phase ϵ on the boundary with cadmium, CuCd_2 . Intermetallic phase ε forms first, phase γ follows. Microphotographs taken by the authors show that the E-layer grows faster on a cylindrical than on a flat specimen. The dependence of the thickness of the layers is parabolic with time, and exponential with temperature. For cylindrical specimens the diffusion coefficients are obtained by graphical differentiation of the experimental curves. The partial diffusion coefficients dependent on temperature are summarised as follows: $D_{Cd} = 2.52 \cdot 10^{-3} \cdot exp - (16400/RT),$

 $D_{Cd} = 2.52 \cdot 10^{-3} \cdot exp - (18400/RT),$ $= 7.10 \cdot 10^{-3} \cdot exp - (18400/RT),$ $= 6.32 \cdot 10 \cdot \exp - (27200/RT)$ = 7.95.10 .exp - (30800/RT).

There are 12 figures and 1 table.

ASSOCIATION: Hutnický ústav ČSAV, Praha (Institute of Mining, ČSAV,

October 13, 1960

TRAJKOV, Stevo, inz., ScC.; CERNY, Vaclav, inz.

Theory of processes of low-grade manganese ore treatment. But listy 18 no.5:338-342 My '63.

1. Vyzkumny ustav uslechtilych oceli, Praha.

TRAJKOV, Stevo, inz., C.Sc.; CERNY, Vaclav, inz.

Treating low-grade manganese ores by sulfidation roasting. But listy 18 no.4:254-261 Ap '63.

1. Vyzkumny ustav uslechtilych oceli, Praha.

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NIKODIJEVIC, B.; TRAJKOV, T.

经现货股份 医多分形形式

Mechanism of the ulcerogenic effect of serotonin in rats. Acta med. iugoslavl. 14 no.4:476-481 '60.

1. Farmakologii institut Medicinskog fakulteta u Skopju. (PEPTIC ULCER exper) (SEROTONIN toxicol)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756420016-9

TRAJKOV, Trajko

SUICIALE (in capu); Given Hamen

Country:

Yugoslavia

Academic Degrees:

Affiliation:

Skopl je

Source: Belgrade, Galenika, No 3, July-September 1961, pp 94-96.

Data: Article Reviews: *Treatment of Inorganic Mercury Poisoning with N-Acetyl-D, L-Penicillamine, by Smith, A. D. M., and Miller J. W. (Lancet); "A New Anthelmintic with Unusual Properties," by Proome, A. W. J., and Greenhalgh, N. (Nature); "The Use of Sulfinpyrazone in the Treatment of Gout," by Robert H. Persellin and Frank Schmid (JAMA); "Nialamide alone and in Combination with Thiazide Derivates in the Troatment of Essential Hypertension," by Albert N. Brest, Ryuichi Kodama, Leonard Driefus, Alan Weber, and John H. Hoyer (The Am. Journal of Hed. Sci).

"

LAZIC, Vasilije, smitetski kapetan i klase, dr.; STARCEVIC, Miloslav, sanitetski pukovnik, prof. dr.; LATIFIC, Safet, pukovnik, prof. dr.; TRAJKOVIC, Borivoje, sanitetski potpikovnik, dr.

Diagnosis of dental recal infection using Lesoner's and thmeek's tests. Vojnosanit, pregl. 22 nc.1:23-27 $Ja^{1/5}$.

1. Vojnomedicinska akademija u Beogradu, Klinika za bolesti usta, zuba i vilica.

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SABALIN, N.N., kandidat technickych ved (Bryansk, SSSR);

TRAJKOVIG, L., inz. (Bryansk, SSSR); KUCERA, Vaclav, inz. [translator]

Radio communication increases the efficiency of marshalling yards. Zel dop tech 10 no.9:578 '62.

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